Patent Claims

- 1. Method for producing an automotive vehicle door (1), which has a supporting frame (11) provided with an opening (2), said supporting frame being connected movably to a body structure of the vehicle, the opening being sealed in an essentially moisture-proof manner by moulding with a curable material whilst forming a supporting plate (10) for receiving elements, such as window winders, loudspeakers (3) or the like, at least one guide rail for guiding a window pane (9), which is displaceable relative to the supporting frame, being provided in the supporting plate (Fig. 2c) in order to receive a lateral edge of the window pane.
- 2. Method for producing an automotive vehicle door (1), which has a supporting frame (11) provided with an opening (2), said supporting frame being connected movably to a body structure of the vehicle, characterised in that the opening is sealed at least in regions by moulding with a curable material whilst forming a supporting plate (10) for receiving elements, such as window winders, loudspeakers (3) or the like.
- 3. Method according to one of the preceding patent claims, characterised in that the moulding takes place by injection of a thermoplastic or thermoset plastic material (4).
- 4. Method according to one of the preceding claims, characterised in that the curable material is PPLGF (4).
- 5. Method according to claim 1 or 2, characterised in that the moulding takes place by foaming with a multi-component foaming agent material.

- 6. Method according to one of the preceding claims, characterised in that the supporting frame is inserted in an injection moulding or foaming tool in order to produce the supporting plate.
- 7. Method according to one of the preceding claims, characterised in that an outer edge of the opening has a circumferential web (5) for form-fitting and integral connection of the supporting plate to the supporting frame.
- 8. Method according to one of the preceding claims, characterised in that the opening is completely sealed in order to produce a liquid-proof supporting plate.
- 9. Method according to one of the preceding claims, characterised in that, after moulding the supporting plate, there is mounted detachably or non-detachably on the side orientated towards the vehicle interior, an interior lining (6) and/or, on the side of the supporting plate pointing towards the vehicle exterior, an external panelling (7).
- 10. Method according to one of the preceding claims, characterised in that the supporting frame (8a, 8b) is cast or produced in a shaping method.
- 11. Method according to one of the preceding claims, characterised in that the frame is one part or multi-part.
- 12. Method according to one of the preceding claims, characterised in that merely one opening is provided in the supporting frame which is sealed by the supporting plate.
- 13. Method according to claim 12, characterised in that the surface area of the opening, in a ratio to the surface area of the surface area

enclosed by the outer contour of the supporting frame, is more than 0.4, preferably more than 0.5.

- 14. Vehicle door produced according to one of the claims 1 to 11.
- 15. Vehicle door (1), which has a supporting frame (2) provided with a central opening, said supporting frame being connected movably to a body structure of the vehicle, characterised in that the opening is sealed in a moisture-proof manner by a supporting plate for receiving elements, such as window winders, loudspeakers (3) or the like, at least one guide rail for guiding a window pane (9), which is displaceable relative to the supporting frame, by receiving a lateral edge of the window pane, is provided in the supporting plate (Fig. 2c).